# Amet Vikram

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# **Experience**

#### **Deutsche Bank | Senior Analyst**

Aug 2020 - Jul 2024

- Developed and delivered strategic business solutions for the New Product Approval (NPA) tool system, collaborating with cross-functional business stakeholder teams to enhance features with actively involved in Agile PI estimations and Agile PI planning of business features and requirements.
- Led machine learning-based analysis of over 600K loss-making events, applying clustering algorithms (DBSCAN, K-Means) and Natural Language Processing (NLP) to identify root causes and correlation among events data, helping the business reducing investigation time by 30%. Published a summary report on Confluence.
- Developed and deployed a predictive dashboard, improving data retrieval efficiency by 40% for business users and get a holistic view of Permitted Products within the organization, through query execution plan optimization and advanced SQL techniques like SQL analytical functions, hierarchical queries and advanced join techniques.
- Spearheaded the development of a new data model for a third-party data producer (OPUS & CCO), performed data engineering and ran multiple SQL & Python scripts to maintain data consistency across 100K records with the updated data model. Recognized in RFT Success Story for this delivery. [Biggest Team Delivery 2021].
- Led end-to-end design and development of Criteria-Driven Approvals and Condition-Driven Products by implementing complex JPA Criteria API queries and creating new dashboards for a highly interactive and responsive UI using ReactJS improving response times by 50%. Recognized and appreciated in email chain by Product Owner and NPA Team for this delivery. [Biggest Team Delivery 2023].
- Successfully deployed and maintained **Elasticsearch** and **Logstash** to enhance search functionality, achieving a **20**% reduction in data retrieval times in a high-volume production environment for Permitted Products Library(PPL).
- Designed a feature for monitoring the execution of **Spark jobs** by generating and analyzing **SLA and Execution metrics** using real-time data from the Spark History Server, improving system efficiency by **35**% using performance metrics analysis.
- Developed a React Native Android app as part of a hackathon, incorporating Text and Voice Sentiment Analysis and an AI Chatbot. The app provided mental health support for 1,000+ users and was ranked among the top 5% of entries.
- Owning Practice Deployment activities for major releases, while also ensuring stability and support for pre-prod environments.

## IBM | Software Engineer Intern

Jul 2019 - Dec 2019

- Successfully integrated Apple's social login identity feature, "Sign in with Apple REST API 1.0", into the IBM Cloud Identity Connect software.
- Gained in-depth knowledge of industry-standard authentication protocols, including OAuth 2.0, OpenID Connect, and SAML.
- Developed comprehensive unit tests for the Health Check API, ensuring reliable performance across various microservices within the IBM Cloud Identity Connect platform and generated detailed code coverage reports to identify untested code paths and improve overall test coverage.

## **Skills**

- Programming Languages: Python, C++, Java, R, SQL, Javascript, Typescript, C
- Frameworks/Libraries/Tools: Apache Spark, Hadoop, Spring, Spring Boot, React JS, OracleSQL, MySQL, TensorFlow, Keras, scikit-learn, NumPy, Pandas, Matplotlib, OpenCV, Microsoft Excel, Google Cloud Platform, Docker, Git, Neovim, Latex
- Relevant Coursework: Machine Learning, Data Mining, Neural Networks and Fuzzy Logic, Data Structures and Algorithms, Design
  and Analysis of Algorithms, Number Theory, Database Management Systems, Operating Systems, Object Oriented Programming,
  Software Engineering

#### **Education**

Rutgers University - New Brunswick

Jul 2024 – Present

Master of Science in Statistics

**B.I.T.S Pilani University** 

Aug 2016 - May 2020

Bachelor of Engineering in Computer Science

#### Certifications

- Coursera Deep Learning Specialization, Algorithms on Strings (UC San Diego), Algorithms on Graphs (UC San Diego), Software Architecture (University of Alberta), Service Oriented Architecture (University of Alberta)
- Google Cloud Skills Boost Deploy to Kubernetes in Google Cloud, Automating infrastructure on Google Cloud with Terraform, Google Cloud Essentials

### **Academic Projects**

Object Localization using CNN  $\mid$  Python, Keras, Pandas, Matplotlib, Numpy, Pillow

Sep 2018

Creating a Linked-Data enabled smart client | Python, Flask, FastAPI, Docker, Redis,

Feb 2019

Reinforcement Learning Model for solving CartPole-v1 problem | Python, Tensorflow, Numpy, Matplotlib, OpenAI Gym

Mar 2019

# Awards/Achievements

- DB Recognition Award For exemplary performance and great contribution in a quarter.
- Certified SAFe5 Agile Practitioner
- Ranked 58 in level 3 among 6000 teams in Flipkart GRiD Te[a]ch The Machines 2019
- Scored 370/450 in BITSAT (Top 0.22%)